



1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/673,302B

DATE: 02/03/2003

TIME: 10:58:20

Input Set : A:\sequene listing 1.25.txt

Output Set: N:\CRF4\02032003\I673302B.raw

3 <110> APPLICANT: Millennium Pharmaceuticals, Inc.
 4 Law, Deborah Ann
 5 Phillips, David R.
 7 <120> TITLE OF INVENTION: Transgenic Mice Expressing Mutant GP IIIa (beta-3) Protein
 9 <130> FILE REFERENCE: MPI98-148P1USM
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/673,302B
 C--> 12 <141> CURRENT FILING DATE: 2001-03-23
 14 <150> PRIOR APPLICATION NUMBER: US 60/115,516
 15 <151> PRIOR FILING DATE: 1998-04-15
 17 <150> PRIOR APPLICATION NUMBER: PCT/US99/08285
 18 <151> PRIOR FILING DATE: 1999-04-15
 20 <160> NUMBER OF SEQ ID NOS: 7
 22 <170> SOFTWARE: PatentIn Ver. 2.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 66
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Mus musculus
 29 <220> FEATURE:
 30 <223> OTHER INFORMATION: Segment of GP IIIa beta-3 subunit
 32 <220> FEATURE:
 33 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
 35 <400> SEQUENCE: 1
 36 Lys Leu Leu Leu Thr Thr His Asp Arg Lys Glu Phe Ala Lys Phe Glu
 37 1 5 10 15
 39 Glu Glu Arg Ala Arg Ala Lys Trp Asp Thr Ala Asn Asn Pro Leu Tyr
 40 20 25 30
 W--> 42 Lys Glu Ala Thr Ser Thr Phe Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 43 35 40 45
 W--> 45 Asn Ile Thr Tyr Arg Gly Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 46 50 55 60
 W--> 48 Xaa Xaa
 49 65
 52 <210> SEQ ID NO: 2
 53 <211> LENGTH: 66
 54 <212> TYPE: PRT
 55 <213> ORGANISM: Mus musculus
 57 <220> FEATURE:
 58 <223> OTHER INFORMATION: Segment of GP IIIa beta-6 subunit
 60 <220> FEATURE:
 61 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
 63 <400> SEQUENCE: 2
 64 Lys Leu Leu Val Ser Phe His Asp Arg Lys Glu Val Ala Lys Phe Glu
 65 1 5 10 15

pp 3-4

**Does Not Comply
Corrected Diskette Needed**

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/673,302B

DATE: 02/03/2003

TIME: 10:58:20

Input Set : A:\sequene listing 1.25.txt

Output Set: N:\CRF4\02032003\I673302B.raw

RECEIVED
FEB 12 2003
TECH CENTER 1600/2900

```

67 Ala Glu Arg Ser Lys Ala Lys Trp Gln Thr Gly Thr Asn Pro Leu Tyr
68      20      25      30
W--> 70 Arg Gly Ser Thr Ser Thr Phe Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa
71      35      40      45
73 Asn Val Thr Tyr Lys His Arg Glu Lys Gln Lys Val Asp Leu Ser Thr
74      50      55      60
76 Asp Cys
77 65
80 <210> SEQ ID NO: 3
81 <211> LENGTH: 66
82 <212> TYPE: PRT
83 <213> ORGANISM: Mus musculus
85 <220> FEATURE:
86 <223> OTHER INFORMATION: Segment of GP IIIa beta-1 subunit
88 <220> FEATURE:
89 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
91 <400> SEQUENCE: 3
92 Lys Leu Leu Met Leu Ile His Asp Arg Arg Glu Glu Ala Lys Glu Glu
93 1      5      10      15
95 Lys Glu Lys Met Asn Ala Lys Trp Asp Thr Gly Glu Asn Pro Ile Tyr
96      20      25      30
W--> 98 Lys Ser Ala Val Thr Thr Val Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
99      35      40      45
W--> 101 Asn Pro Lys Tyr Glu Gly Lys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
102      50      55      60
W--> 104 Xaa Xaa
105 65
108 <210> SEQ ID NO: 4
109 <211> LENGTH: 66
110 <212> TYPE: PRT
111 <213> ORGANISM: Mus musculus
113 <220> FEATURE:
114 <223> OTHER INFORMATION: Segment of GP IIIa beta-5 subunit
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
119 <400> SEQUENCE: 4
120 Lys Leu Leu Val Thr Ile His Asp Arg Arg Glu Phe Ala Lys Phe Gln
121 1      5      10      15
123 Ser Glu Arg Ser Arg Ala Arg Tyr Glu Met Ala Ser Asn Pro Leu Tyr
124      20      25      30
126 Arg Lys Pro Ile Ser Thr His Thr Val Asp Phe Thr Phe Asn Lys Phe
127      35      40      45
W--> 129 Asn Lys Ser Tyr Asn Gly Thr Val Asp Xaa Xaa Xaa Xaa Xaa Xaa Xaa
130      50      55      60
W--> 132 Xaa Xaa
133 65
136 <210> SEQ ID NO: 5
137 <211> LENGTH: 66
138 <212> TYPE: PRT

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/673,302B

DATE: 02/03/2003

TIME: 10:58:20

Input Set : A:\sequene listing 1.25.txt

Output Set: N:\CRF4\02032003\I673302B.raw

139 <213> ORGANISM: Mus musculus
 141 <220> FEATURE:
 142 <223> OTHER INFORMATION: Segment of GP IIIa beta-2 subunit
 144 <220> FEATURE:
 145 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
 147 <400> SEQUENCE: 5
 148 Lys Ala Leu Thr His Leu Ser Asp Leu Arg Glu Tyr Arg Arg Phe Glu
 149 1 5 10 15
 W--> 151 Lys Glu Lys Leu Lys Ser Gln Trp Asn Asn Asp Xaa Asn Pro Leu Phe
 152 20 25 30
 W--> 154 Lys Ser Ala Thr Thr Thr Val Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 155 35 40 45
 W--> 157 Asn Pro Lys Phe Ala Glu Ser Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 158 50 55 60
 W--> 160 Xaa Xaa
 161 65
 164 <210> SEQ ID NO: 6
 165 <211> LENGTH: 66
 166 <212> TYPE: PRT
 167 <213> ORGANISM: Mus musculus
 169 <220> FEATURE:
 170 <223> OTHER INFORMATION: Segment of GP IIIa beta-7 subunit
 172 <220> FEATURE:
 173 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
 175 <400> SEQUENCE: 6
 176 Arg Leu Ser Val Glu Ile Tyr Asp Arg Arg Glu Tyr Ser Arg Phe Glu
 177 1 5 10 15
 179 Lys Glu Gln Gln Gln Leu Asn Trp Lys Gln Asp Ser Asn Pro Leu Tyr
 180 20 25 30
 W--> 182 Lys Ser Ala Ile Thr Thr Thr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
 183 35 40 45
 W--> 185 Asn Pro Arg Phe Gln Glu Ala Asp Ser Pro Thr Leu Xaa Xaa Xaa Xaa
 186 50 55 60
 W--> 188 Xaa Xaa
 189 65
 192 <210> SEQ ID NO: 7
 193 <211> LENGTH: 65
 194 <212> TYPE: PRT
 195 <213> ORGANISM: Artificial Sequence
 197 <220> FEATURE:
 198 <223> OTHER INFORMATION: Description of Artificial Sequence: Consensus
 199 sequence for GP IIIa beta subunits
 201 <220> FEATURE:
 202 <221> NAME/KEY: VARIANT
 203 <222> LOCATION: (5). (51) (65) Xaa's are shown after location 51
 204 <223> OTHER INFORMATION: Xaa can be any amino acid and may be present or missing
 206 <400> SEQUENCE: 7
 W--> 207 Lys Leu Leu Val Xaa Ile His Asp Arg Arg Glu Phe Ala Lys Phe Glu
 208 1 5 10 15

RAW SEQUENCE LISTING

DATE: 02/03/2003

PATENT APPLICATION: US/09/673,302B

TIME: 10:58:21

Input Set : A:\sequene listing 1.25.txt

Output Set: N:\CRF4\02032003\I673302B.raw

W--> 210 Xaa Glu Xaa Xaa Xaa Ala Xaa Trp Xaa Xaa Xaa Xaa Asn Pro Leu Tyr
211 20 25 30
W--> 213 Lys Xaa Ala Xaa Xaa Thr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
214 35 40 45
W--> 216 Asn Xaa Xaa Tyr Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
217 50 55 60
W--> 219 Xaa
220 65

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/673,302B

DATE: 02/03/2003
TIME: 10:58:22

Input Set : A:\sequene listing 1.25.txt
Output Set: N:\CRF4\02032003\I673302B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:2; Xaa Pos. 41,42,43,44,45,46,47,48
Seq#:3; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:4; Xaa Pos. 58,59,60,61,62,63,64,65,66
Seq#:5; Xaa Pos. 28,41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65
Seq#:5; Xaa Pos. 66
Seq#:6; Xaa Pos. 41,42,43,44,45,46,47,48,61,62,63,64,65,66
Seq#:7; Xaa Pos. 5,17,19,20,21,23,25,26,27,28,34,36,37,39,40,41,42,43,44,45
Seq#:7; Xaa Pos. 46,47,48,50,51,53,54,55,56,57,58,59,60,61,62,63,64,65

VARIABLE LOCATION SUMMARY

DATE: 02/03/2003

PATENT APPLICATION: US/09/673,302B

TIME: 10:58:22

Input Set : A:\sequene listing 1.25.txt

Output Set: N:\CRF4\02032003\I673302B.raw

Use of n's or Xaa's (NEW RULES) :

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:1; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:2; Xaa Pos. 41,42,43,44,45,46,47,48
Seq#:3; Xaa Pos. 41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65,66
Seq#:4; Xaa Pos. 58,59,60,61,62,63,64,65,66
Seq#:5; Xaa Pos. 28,41,42,43,44,45,46,47,48,56,57,58,59,60,61,62,63,64,65
Seq#:5; Xaa Pos. 66
Seq#:6; Xaa Pos. 41,42,43,44,45,46,47,48,61,62,63,64,65,66
Seq#:7; Xaa Pos. 5,17,19,20,21,23,25,26,27,28,34,36,37,39,40,41,42,43,44,45
Seq#:7; Xaa Pos. 46,47,48,50,51,53,54,55,56,57,58,59,60,61,62,63,64,65

VERIFICATION SUMMARY

DATE: 02/03/2003

PATENT APPLICATION: US/09/673,302B

TIME: 10:58:22

Input Set : A:\sequene listing 1.25.txt

Output Set: N:\CRF4\02032003\I673302B.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number
L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:42 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:1
L:42 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:1
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:32
L:45 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:48
L:48 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:64
L:70 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:2
L:70 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:2
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:32
L:98 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:3
L:98 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:3
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:32
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:48
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:64
L:129 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4
L:129 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4
L:129 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:48
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:64
L:151 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:5
L:151 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:5
L:151 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:16
L:154 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:32
L:157 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:48
L:160 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:64
L:182 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:6
L:182 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:6
L:182 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:32
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:48
L:188 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:64
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0
L:210 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:16
L:213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:32
L:216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:48
L:219 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:64